

Title (en)
FLUORINE-CONTAINING PYRIMIDINE COMPOUND AND PRODUCTION METHOD THEREFOR

Title (de)
FLUORHALTIGE PYRIMIDINVERBINDUNG UND PRODUKTIONSVERFAHREN DAFÜR

Title (fr)
COMPOSÉ DE PYRIMIDINE CONTENANT DU FLUOR ET PROCÉDÉ DE PRODUCTION ASSOCIÉ

Publication
EP 4105210 A4 20231206 (EN)

Application
EP 20918156 A 20201216

Priority
• JP 2020021837 A 20200212
• JP 2020046908 W 20201216

Abstract (en)
[origin: EP4105210A1] Provided is a novel fluorine-containing pyrimidine compound having a fluorine-containing substituent at the 5-position, substituents at the 4- and 6-positions, and a fused heterocyclic ring containing a heteroatom as a substituent at the 2-position, and a production method capable of easily producing the fluorine-containing pyrimidine compound. The fluorine-containing pyrimidine compound represented by the following formula (1): wherein in formula (1) above, R represents a hydrocarbon group having 1 to 12 carbon atoms, and a ring Z represents a fused heterocyclic ring containing a heteroatom.

IPC 8 full level
C07D 401/04 (2006.01); **A01N 43/54** (2006.01); **A01N 43/90** (2006.01); **C07D 403/04** (2006.01); **C07D 405/04** (2006.01); **C07D 417/04** (2006.01); **C07D 471/04** (2006.01)

CPC (source: EP US)
A01N 43/54 (2013.01 - EP); **A01N 43/74** (2013.01 - EP); **A01N 43/82** (2013.01 - EP); **A01N 43/90** (2013.01 - EP); **C07D 401/04** (2013.01 - EP US); **C07D 403/04** (2013.01 - EP US); **C07D 405/04** (2013.01 - EP US); **C07D 417/04** (2013.01 - EP US); **C07D 471/04** (2013.01 - EP US)

Citation (search report)
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• [A] EP 3144297 A1 20170322 - ASAHI GLASS CO LTD [JP]
• [A] FR 2795073 A1 20001222 - AMERICAN CYANAMID CO [US]
• [AP] WO 2020116296 A1 20200611 - UNIMATEC CO LTD [JP] & EP 3892617 A1 20211013 - UNIMATEC CO LTD [JP]
• [Y] INOUE, HIGUCHI: "A facile one-pot preparation of 2-methyl-and 2-phenyl-4- fluoro-5-trifluoromethyl-6-methoxypyrimidine from methyl 2-hydryl-2-(methyl)-propyl ether", JOURNAL OF FLUORINE CHEMISTRY, vol. 27, no. 2, 1985, NL, pages 231 - 236, XP055717031, ISSN: 0022-1139, DOI: 10.1016/S0022-1139(00)84991-X & DATABASE Reaxys [online] Elsevier Life Sciences IP Limited; 1985, INOUE, HIGUCHI: "Journal of Fluorine Chemistry 1985, 27, 231-236", XP093096787, Database accession no. 1958034, 1958035 (Rx-IDs)
• See also references of WO 2021161648A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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EP 4105210 A1 20221221; **EP 4105210 A4 20231206**; CN 115023421 A 20220906; CN 115023421 B 20240524; JP 7349551 B2 20230922; JP WO2021161648 A1 20210819; US 2023096085 A1 20230330; WO 2021161648 A1 20210819

DOCDB simple family (application)
EP 20918156 A 20201216; CN 202080094911 A 20201216; JP 2020046908 W 20201216; JP 2022500244 A 20201216; US 202017795670 A 20201216